SHURA-BURA, B.L.; VOROB'YEV, M.I.; SHLYKOV, V.I.

Disinfection of dishes and linen by means of electrolyzed sodium chloride solutions. Zhur.mikrobiol., epid.i immun. 33 no.8:9-14 (MIRA 15:10)

1. Iz kafedry obshchey i voyennoy epidemiologii Voyennomeditsinskoy ordena Lenina akademii imeni Kirova. (DISINFECTION AND DISINFECTANTS) (BEDDING--DISINFECTION) (TABLEWARE--DISINFECTION) (SODIUM CHLORIDE)

KISLIK, V.A.; SHLYKOV, V.I.

Machine for testing specimens for wear with a reciprocating motion.

Izv. vys. ucheb. zav.; neft' i gaz 4 no.12:109-112 '61.

(MIRA 16:12)

1. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta
i Groznenskiy neftyanoy institut.

SHLYKOV, V.I.

Testing the wear resistance of magnesium cast iron in order to use it for manufacturing drilling equipment parts subject to wear. Izv.vys.ucheb.zav.; neft' i gaz 5 no.4:99-104 622 (MIRA 16:1)

1. Groznenskiy neftyanoy institut.
(Oil well drilling—Equipment and supplies)
(Cast iron—Testing)

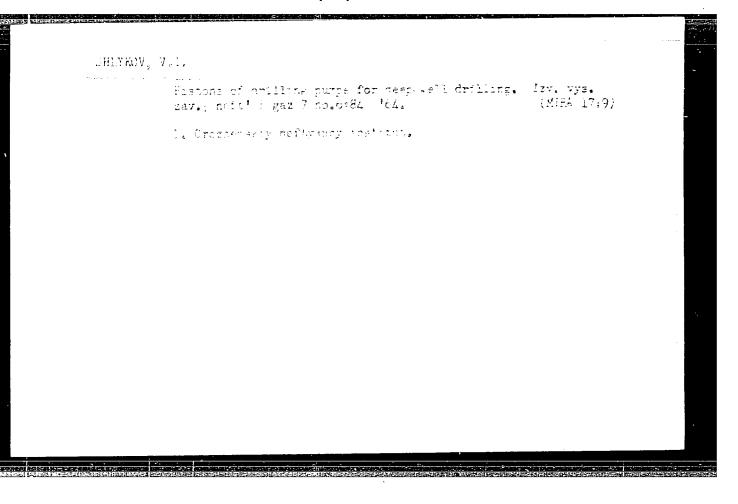
SHLYKOV, V.I.

Nature of the almasive wear of drilling-equipment parts make _____ magneshim rist iron. Tzv. vys. wheb. ziv.; neft* i gaz. 6 no.5:103-107 *63 (MIRA 17:7)

1. Groznenskiy neftyanov institut.

SHLYKOV, V.I.; MKRTYCHAN, Ya.S.; POZHARNOV, G.M.

Efficient design of the lightened cylinder bush of a drill
pump. Neft.khoz. 41 no. 1:66-68 Ja '63. (MIRA 17:7)



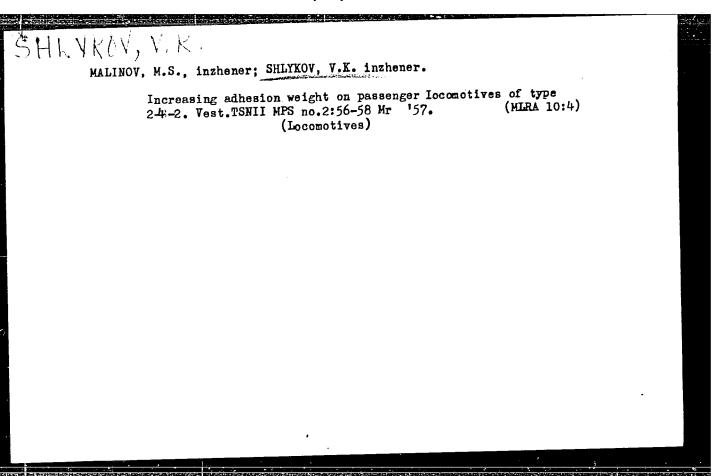
GRACHEV, K.V.; SHLYKOV, V.I.

Restoring the joints of drill pipes by build-up welding with a weaving arc. Mash, i neft, obor, no.1:25-28 '65, /MFRA 18:4)

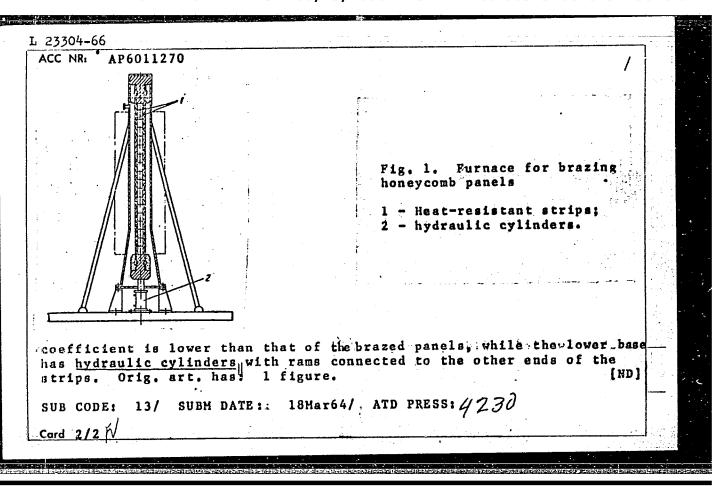
1. Groznenskiy neftyanoy institut.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720016-6



レーピクシロヨー66 ENT(d)/ENT(m)/ENP(w)/ENP(v)/T/ENP(t)/ENP(k)/ENP(h)/ENP(l) JD/HM/EM/DJ-AP6011270 ACC NR SOURCE CODE: UR/0413/66/000/006/0125/0125 INVENTOR: Shlykov, V. P.; Manuylova, O. M. ORG: none TITLE: Furnace for brazing honeycomb panels. Class 49. No. 180073 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 125 TOPIC TAGS: brazing, honeycomb panel, honeycomb panel brazing, brazing furnace ABSTRACT: This Author Certificate introduces a furnace for brazing honeycomb panels (see Fig. 1). It consists of a shielding gas chamber, an upper and lower base, a bottom plate on which the panels are placed, and a set of quartz lamps. To provide for adequate clamping and to prevent distortion of the panels, the upper base of the unit is equipped with heat-resistant strips made of metal whose linear expansion Card 1/2 UDC: 621.791.364.039



SHLYKOV, V.V.

Reducing the time consumption in flask production. Lit. proizv.
no.lls43 N '64. (MIPA 18.8)

SHLYKOV, V/E

WSR/Miscellaneous - Foundry processes

Cerd

1/1

Pub. 61 - 20/23

Authors

Shlykov, V. E.

Title

Moulding with spacing gate-pin

Periodical

Lit. proizv. 3, page 31, May - June 1954

Abstract

The advantages derived from employing spacing gate-pin moulding, are

briefly described. Drawings.

Institution :

Submitted

GORYUSHINA, V.A., inzh.-tekhnolog; SHLYKOV, Yu.A., arkhitektor

Several problems relating to the architectural planning and equipment of surgical wards. Khirurgiia 39 no.12:107-113 (MIRA 18:1)

1. Iz Nauchno issledovatel'skogo instituta obshchestvennykh zdeniy Akademii stroitel'stva i arkhitektury SSSR (direktor - kand. arkhitektury G.A. Gradov) i kliniki gospital'noy khirurgii (direktor - deystvitel'nyy chlen AMN SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720016-6

FILIPPOV,V.V., kandidat tekhnicheskikh nauk; YEVENKO,V.I., kandidat tekhnicheskikh nauk; SHLYKOV,Yu.P., kandidat tekhnicheskikh nauk, redaktor; BLIZHYMSKIT,A.S., inzhener, redaktor; KUTSENKO, S.M., kandidat tekhnicheskikh nauk, retsenzent; UVAROVA,A.F., tekhnicheskiy redaktor

[Intake and outlet processes in steam engines] Protsessy vpuska i vypuska v parovykh mashinakh. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit-l'noi lit-ry, 1955. 213 p., 11 nomograms

(Steam engines)

(MLRA 9:3)

STERMAN, Lev Samoylovich, kandidat tekhnicheskikh nauk; STYUSHIN, N.G.
retsenzent, kandidat tekhnicheskikh nauk; SHLYKOV, Yu.P.
redaktor, kandidat tekhnicheskikh nauk; MODEL, B.T.
tekhnicheskiy redaktor

[Evaporators] Ispariteli. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1956. 67 p. (MIRA 10:5)
(Evaporating appliances)

SHLYKOV, YU. P.

PHASE I BOOK EXPLOITATION

368

Kutateladze, Samson Semenovich

- Osnovy teorii teploobmena (Fundamentals of Heat Exchange Theory)
 Moscow, Mashgiz, 1957. 382 p. 5,000 copies printed.
- Reviewer: Shlykov, Yu.P., Candidate of Technical Sciences;
 Ed.: Deshkin, V.N., Doctor of Technical Sciences, Professor; Ed. of Publishing House: Gofman, Ye.K.; Tech. Ed.: Pol'skaya, R.G.
- PURPOSE: This book is intended for scientists, engineers and physicists and may also be used by students specializing in physical thermotechnics.
- COVERAGE: The book presents the physics of heat exchange phenomena and provides the fundamental mathematical expressions for the theory of heat propagation. The most important practical aplication of the mathematical principles and an analysis of experimental data are given. There are 135 references, of which 112 are Soviet, 14 English, 8 German, 1 French.

Card-1/22-

SHEBALIN, Yu.4.. inzhener; SHLYKOV, Yu.F., kandidat tekhnicheskikh nauk.

Problems of designing steam power installations of small capacity.
Teploenergetika 4 no.3:37-41 Mr *57. (MIRA 10:3)

1. Nauchno-issledobatel*skiy abtomobil'nyy i abtomotornyy institut.

(Steam power plants)

BERMAN, prof., doktor tekhn.nauk; KOSTERIN, S.I., prof., doktor tekhn. nauk, retsenzent; SHLYKOV, Yu.P., kand.tekhn.nauk, red.; UVAROVA, A.F., tekhn.red.

The second secon

[Heat exchangers and condensation devices for turbine units]
Teploobmennye apparaty i kondensatsionnye ustroistva turboustanovok. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1959. 427 p. (MIRA 12:10)

1. Bryanskiy institut transportnogo mashinostroyeniya (for Berman).
(Heat exchangers) (Condensers (Steam))

, -

EUCAKOV, P.I.; UDALOV, V.S.; SHIXKOV, Yu.P.

[Investigating the heat conductivity of a packing of shot in various gaseous media] Issledovanie teploprovodnosti zasypki iz drobi v razlichnykh gazovykh sredakh. [n.p.] gos. kom-t po ispol'zovaniiu atomnoi energii, 1960. 14 p.

(Shot-Thermal properties) (Heat-Conduction)

GANIN, Ye.A.; FLORINSKIY, B.V.; SHLYKOV, Yu.P.

[Theoretical and experimental study of contact heat transfer] Teoreticheskoe i eksperimental'noe issledovanie kontaktnogo teploombena. Moskva, Gos.kom-t po ispol'zovaniiu atomnoi energii, 1960. 53 p.

(MIRA 17:2)

SHIYKOV, Yu.P., kand.tekhn.nauk; GANIN, Ye.A., inzh.; DEMKIN, N.B., inzh.

Investigation of contact heat exchange. Teploenergetika 7 no.6:
72-76 Je '60.

(Heat--Transmission)

24.5200

77248 sov/89-8-2-13/30

AUTHOR:

Shlykov, Yu. P.

TITLE:

Experimental Study of Heat Transfer in Marrow Flat Channels Under High Heat Load. Letter to the Editor

PERIODICAL:

Atomnaya energiya, 1960, Vol 8, Nr 0, pp 144-145 (USSR)

ABSTRACT:

Although in much ar reactors heat loads may reach 5 & 10 scal/m th or more, and narrow flat or annular tules are in wide use, the author did not find in the literature reliable enough experiments on the basis of which one could accide which of the many theoretical expressions best represents the actual situation.

The author used a low-voltage current to heat directly

the Lorling Rection of the water-cooled channel (Steel (KH) 407). The experimental betup to shown in

H

Card 1,7

Experimental Study of Heat Transfer in Marrow Fist Channels Under High Heat Load. Letter to the Editor 77:48 80\$/89-8-0-13/**30**

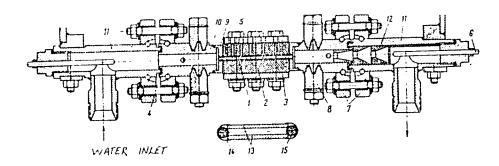


Fig. 2. Experimental setup and cross section of the working tube: (1) working tube; (2) electroheating insulating cover plates; (3) relieving layers; (4) electroinsulating washers; (5) tie belts; (6) thermocouple housing; (7) electroinsulating flanges; (8) current bar; (9) contacts; (10) current carrying bushing; (11) input and output chambers; (12) mixing arrangement; (13) calibrated plates; (14) steel foil; (15) spacers.

Card 2/7

Experimental Study of Heat Trans.er in Narrow Flat Channels Under High Heat Load. Letter to the Editor 77248 50V/89-8-2-13/30

The narrow channels were made out of flattened tubing. A series of experiments were performed on the section shown in Fig. 2. The flow of water was varied from 5 to 12 m/sec, heat load from 3.6 to 5.7·10 keal/

/m²·h. The input water temperature varied between 45 and 80°C. Pressure in the contour was 50 atm. Of the ob experiments on nonboiling water, 35 were done in a 1 x 23 mm channel and the rest in a 1.5 x 23 mm channel. The length of the working section was 200 mm. Since many results were identical, computations were done on the basis of 17 measurements. The author tested the following equations:

$$m_{eff} = 0.027 \, h_{eff}^{(0)} \, h_{eff}^{(0)} \, \left\langle \left(\frac{102 k_{eff}^{(0)}}{m_{eff}^{(0)}} \right) \right\rangle$$
 (1)

--equation by Zider and Test;

$$\sqrt{r_{2E}} = o_{2}(2) Re_{2A}^{(E)} Pe_{2A}^{(E)} Pe_{2A}^{(E)} \left(\frac{\mu_{e} f_{e}}{\mu_{e} \tau}\right)^{1/4}$$
 (-2)

Card 3/1

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720016-6

Experimental Study of Heat Transfer in Marrow Flat Channels Under High Heat Load. Letter to the Editor

-- more equation but with coefficients corrected by Carrenter and others (see reference) for narrow aperture; (3)

Votal 0,020 Rath Price

--equation by McAdams for a circular tube;

 $Nu_{{\bf z}{\bf b}} = 0.024 \, Rr_{{\bf z}{\bf b}}^{0.8} \, Pr_{{\bf z}{\bf b}}^{0.43} \left(\frac{Pr_{{\bf z}{\bf b}}}{Pr_{{\bf o}{\bf \tau}}} \right)^{0.23}$

--universal equation by Mikheyev;

 $Na_{\mathbf{z}\mathbf{b}} = 0.0274 \; Re_{\mathbf{z}\mathbf{b}}^{0.8} \; Pr_{\mathbf{z}\mathbf{b}}^{0.36} \; \left(\frac{Pr_{\mathbf{z}\mathbf{b}}}{Pr_{\mathbf{c}\mathbf{r}}} \right)^{0.11}$

--equation by Yakovlev (Atommaya energiya, 11, Nr 2, 179 (1957)) for a circular tube. The processing of the average (over the channel length) of the heat transfer coefficients is shown in Figs. 3 and 4 in the form:

1 Vurh = 1 (Rezh),

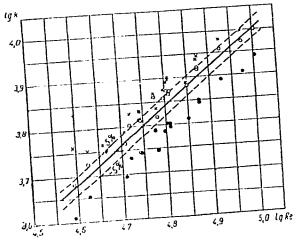
card 4/7

Experimental Study of Heat Transfer in Narrow Flat Channels Under High Heat Load. Letter to the Editor

77248 SOV/89-8-2-13/30

where A_1 are right-hand sides of Equations (1) to (5) without the factor $Re_{gh}^{O,\,\otimes}$.

Fig. 3. Relationship $k = f(Re_{uh})$ using Equations: (1) •; (2) o; (3) x.

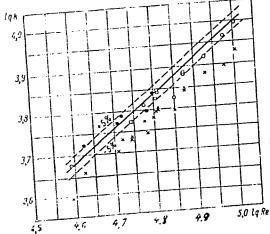


Card 5/7

Experimental Study of Heat Transfer in Marrow Flat Channels Under High Heat Load. Letter to the Editor

77248 30V/89-8-2-13/30

Fig. 4. Relationship $K = \Gamma(Re_{Eh})$: • and o, using Eq. (4) for the channel with gaps of 1 and 1.5 mm, respectively; x, using Eq. (5).



card 6/7

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720016-6

Experimental Study of Heat Transfer in Narrow Flat Channels Under High Heat Load. Letter to the Editor

77248 SOV/89-8-2-13/30

For the defining gage the author used in all cases the equivalent diameter $\text{d}_E=\frac{\mu_F}{\pi}$ (F is the area of the

cross section of the channel, π is the wetted parameter). The results can be generalized most easily (with a \pm 5% dkspersion) using Eq. (4) which was verified for $4\cdot10^4 < R_{\rm zh} < 10^5$, heat load up to 5.7 10^6 kcal/m²·h

and $1.8 \le \frac{Pr_{zh}}{Pr_{ct}} \le 3$. Z. P. Medvedev and A. I. Yevstaf yeva

helped during the experiments. There are 4 figures; and 5 references, 3 Soviet, 2 U.S. The U.S. references are: 5 w. McAdams, W. Kennel, J. Addoms, Trans. ASME, 72, Nr 4, W. McAdams, Trans. ASME, 72, Nr 4, W. (1950); F. Carpenter, A. Colburn, E. Schoenborn, A. Wurster, Trans. AIChE, 42, 165 (1946).

SUBMITTED:

May 21, 1959

Card 7/7

SHLYKOV, Yu.P.; GANIN, Ye.A.

Thermal resistance of a contact. Atom. energ. 9 no.6:496-498 D
(MIRA 13:12)

(Heat--Transmission) (Surfaces (Technology))

\$/096/60/000/010/014/022

E194/E135

AUTHORS:

26.2181

Kurayeva, I.V., Yn P. Petukhov, B.S., Shlykov.

Kazakova, Ye.D., and Prozorov,

TITLE:

Calculation of Transient Temperature Fields in Multi-Layer Walls with Internal Heat Evolution by

the Hydrothermal Analogy Method

PERIODICAL: Teploenergetika, 1960, No 10, p 95

The temperature distribution is calculated in two and three layer walls with internal sources of heat, required to determine the temperature gradients during calculation of the strength of assemblies in several types of heat exchange

equipment 2

ASSOCIATION: Moskovskiy energeticheskiy institut

(Moscow Power Institute)

Card 1/1

23557 S/096/61/000/007/005/006 E194/E155

11.9100

AUTHORS:

Shlykov, Yu.P., Candidate of Technical Sciences, and

Ganin, Ye.A., Engineer

TITLE: An experimental investigation of contact heat-exchange

PERIODICAL: Teploenergetika, 1961, No.7, pp. 73-76

A previous article in Teploenergetika No.6, 1960 (Ref.1) considered a theoretical method of calculating the thermal TEXT: resistance of contact between two rough surfaces and recommended certain formulae for calculations. In order to check the method a series of tests were made to determine the thermal resistance of joints as a function of the compressive force, the degree of surface finish, the kind of material, the pressure and nature of the gas used, and the temperature of the contacting surfaces. Cylindrical test pieces were used, 30 mm in diameter and 34 mm long. The test chamber is illustrated diagrammatically in Fig. 2. The heat flow was set up by a heater (1) and a cooler (2). The compression between the specimens could be up to 3000 kg and was recorded by a spring dynamometer (4); the test piece is shown at (5). atmosphere or vacuum could be used. The pressure between the Card 1/

23557

S/096/61/000/007/005/006 E194/E155

An experimental investigation of contact heat-exchange specimens was raised from 0 to 200 kg/cm 2 in steps of 50 kg/cm 2 . The test results were obtained in the form of temperatures measured over the length of the specimens. The heat drop in the contact zone was determined by extrapolation, and ranged from 10 to 8 °C. The error of the test results was on average 10-12% but The tests were made on at low rates of heat flow it reached 20%. samples of steel 3, stainless steel 1X18H9T (1Kh18N9T), Dural A-16 (D-16), and copper M-2 (M-2). The test results are plotted in Figs. 3, 4 and 5. In Fig. 3 the material is steel 1Kh18N9T with class 5 finish; curve 1 shows the total thermal resistance of contact, curve 2 the thermal resistance of the actual contact (pressure of 5 x 10^{-3} mm Hg), curve 3 the thermal resistance of the air layer, and curve 4 the thermal resistance of the contact in Fig. 4 corresponds to Dural D-16 with class 4 finish, helium gas. where curve 1 corresponds to the total thermal resistance and curve 2 to the thermal resistance of the actual contact (at a pressure of 5 x 10^{-3} mm Hg). Fig.5 corresponds to steel 3 with class 8 surface finish. The total thermal resistance of the

Card 2/6

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S/096/61/000/007/005/006 E194/E155

An experimental investigation of contact heat-exchange contact alone is shown. It will be seen that the thermal resistance drops as the pressure is increased, rapidly at first and then more slowly. The dotted lines correspond to theoretical values of thermal resistance obtained by the formula given in the previous article. Agreement is generally good and in the case of Dural the theoretical and experimental curves coincide. As it is important to be able to separate the various components of thermal resistance, tests were made both under vacuum and in a helium atmosphere. The fact that curves 1 and 2 in Fig. 4 for Dural are so close indicates that in this case the conductivity of the actual contact plays the main part in heat transmission. corresponding curves for the steel lKhl8N9T, which is of lower thermal conductivity (see Fig. 3), show that in this case conductivity through the gas is important. Tests were made with helium because of its high thermal conductivity and it is claimed that in this case the main flow of heat through the contact zone passes through the gas. Thus the main conclusion is that in relatively soft materials of good thermal conductivity heat flows Card 3/6

23557 \$/096/61/000/007/005/006 E194/E155

An experimental investigation of contact heat-exchange through the contact, and in hard materials of poorer conductivity heat conduction through the gas plays a considerable part. There are 8 figures, 1 table and 4 Soviet references.

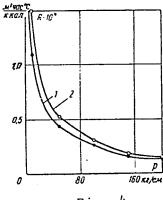


Fig. 4 Card 4/6

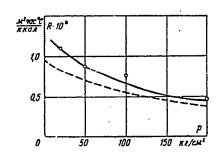


Рис. 5. Материал — Ст. 3, 8-й класс чистоты. Общее термическое сопротивление контакта.

Fig. 5

SHLYKOV, Yu.P., kand.tekhn.nauk; UDALOV, V.S., inzh.

Heat conductance of a shot filling in different gaseous mediums.

Teploenergetika 8 no.4:73-76 Ap '61. (MIRA 14:8)

(Heat—Transmission)

(Insulation (Heat))

SHLYKOV, Yuriy Pavlovich; GANIN, Yevgeniy Alekseyevich. Prinimala uchastiye MIKHAYLOVA, G.M., kand. tekhn. nauk; VCSKRESENSKIY, K.D., red.; FRIDKIN, L.M., tekhn. red.

[Heat exchange by contact; heat transfer between contiguous metal surfaces] Kontaktnyi teploobmen; teploperedacha mezhdu soprikasaiushchimsia metallicheskimi poverkhnostiami.

Moskva, Gosenergoizdat, 1963. 143 p. (MIRA 16:5)

(Heat--Transmission)

L 10760-63 EWP(j)/EPF(c)/EWT(1)/EPF(n)-2/EWT(m)/BDS--AFFTC/ASD/SSD--Pc-4/Pr-4/Pu-4-RM/WW

ACCESSION NR: AP3003986

\$/0089/63/015/001/0077/0079

AUTHOR: Karavayev, G. N.; Leongardt, A. D.; Shly*kov, Yu. P.

TITLE: Study of critical heat flux in forced flow of monoisopropylbiphenyl at a temperature below saturation

SOURCE: Atomnaya energiya, v. 15, no. 1, 1963, 77-79

TOPIC TAGS: burnout heat flux, monoisopropylbiphenyl, nuclear reactor coolant

ABSTRACT: The burnout heat flux of subcooled monoisopropylbiphenyl was studied experimentally in a closed-circulation loop at flow velocities of 4.24 and 6.27 m/sec and subcooling temperatures from 120 to 195C. The test section (Fig. 1 of Enclosure) consisted of an electrically heated test element (plates 6 and 8 mm wide, 0.2 mm thick, and 125 mm long) inserted into the ceramic tube through which the coolant was passed. In most of the test runs the burnout flux was achieved by slowly increasing the electric power input Card 1/A2

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ACCESSION NR: AP3003986

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while maintaining constant pressure, temperature, and velocity of the coolant. The burnout of the plate (corresponding to the burnout flux) was detected instrumentally. The critical heat load was varied 1) from 3.7 x 10⁶ to 4.8 x 10⁶ kcal/m²·hr at a flow velocity of 6.3 m/sec and subcooling temperature from 124 to 190C and 2) from 2.7 x 10⁶ to 3.6 x 10⁶ kcal/m²·hr at a flow velocity of 4.24 m/sec and subcooling temperatures from 120 to 195C. The error in determining the critical heat load amounted to 4.5%. The results obtained are shown in Fig. 2 of Enclosure. It is concluded that for monoisopropylbiphenyl the burnout heat flux, like that for other fluids, varies linearly with respect to subcooling. The close distribution of the data points correponding to pressure variations from 3 to 6 atm with respect to the straight line indicates that the effect of pressure (in the range studied) on burnout flux is weak. The experimental data did not agree with several criterial relationships proposed by others for determining burnout flux. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 230ct62 SUB CODE: 00 DATE ACQ: 08Aug63 NO REF SOV: 003 ENCL: 02 OTHER: 000

Card -2/16

ACCESSION NO: AP4012342

s/0096/64/000/002/0078/0081

AUTHORS: Shly*kov, Yu. P. (Candidate of technical sciences); Abramov, A. I. (Engineer); Leongardt, A. D. (Engineer); Mikhaylov, V. D. (Engineer)

TITLE: Critical thermal load in forced monoisopropyldiphenyl flow in tubes and channels

SOURCE: Teploenergetika, no.2, 1964, 78-81

TOPIC TAGS: monoisopropyldiphenyl, forced flow, critical thermal load, underheat, saturation temperature

ABSTRACT: An experimental investigation has been made of critical thermal loads in monoisopropyldiphenyl (MIPD) forced flow on a flat plate and in a tube under large flow and temperature variations. The flow analyses were conducted in a closed circuit system with all structural components, in contact with MIPD, made from 1Kh18N9T steel. Pressure measurements were made by a differential manometer type DSE-9A and a secondary instrument DSPI-02. Heating was accomplished electrically, and the thermocouple measurements were recorded on EPP-09 potentiometer. The critical thermal load for the plates varied from 3.7 x 106 to 4.8 x 106 kcal/m² hr

Card 1/2

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ACCESSION NO: AP4012342

at speeds of 6.3 m/sec and 4.2 m/sec, underheat temperature variation range from 120 to 195C, and pressures of 3 to 6 atm. It is shown that the critical thermal flow varies linearly with the underheat temperature. A similar study in a 10-mm by 150-mm tube yields the same result up to 100C, after which the slope of linear growth of critical heat flow versus temperature decreases by about 20%. The experimental results indicate that forced flow of MIPD attains large critical thermal flow values before reaching saturation temperatures. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 14Feb64.

ENCL: 00

SUB CODE: AI

NO REF SOV: 006

OTHER: 001

Card 2/ 2

SHLYKOV, Yu. P.; TSAREVSKIY-DYAKIN, S. N.; DOSTOV, A. I.

"The efficiency of finned surfaces."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Inst of Theoretical & Experimental Physics.

SHLYKOV Yu.P., kand.tekhn.nauk

Calculation of the thermal resistance of the contact of finished

Calculation of the thermal resistance of the contact of finished

Calculation of the thermal resistance of the contact of finished

(MIRA 18:10)

Institut teoreticheskov is eksperimentalincy fiziki.

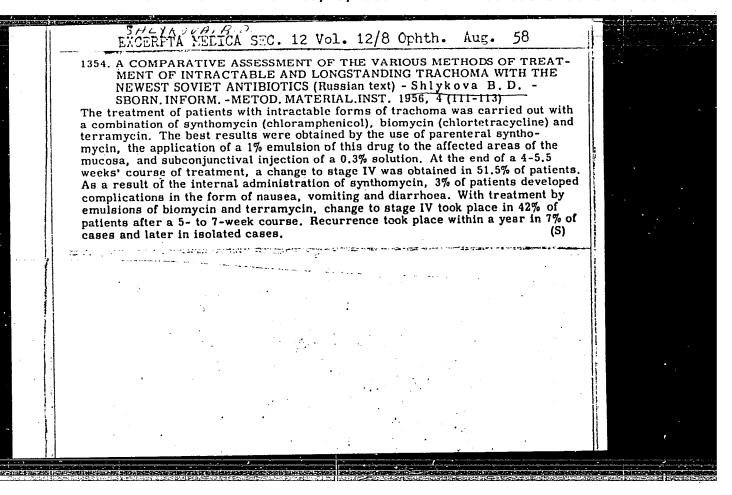
SOURCE CODE: UR/0096/66/000/012/0062/0066 (M) FACC NR AP6036434 AUTHOR: Shlykov, Yu. P. (Doctor of Technical Sciences); Tsaravskiy-Dyakin, S. N. (Dissertant; Engineer) ORG: none TITIE: Turbulent flow and heat exchange in smooth rectilinear channels of arbitrary cross section SOURCE: Teploenergetika, no. 12, 1966, 62-66 TOPIC TAGS: turbulent flow, heat transfer, hydraulic resistance ABSTRACT: An approximate method of calculation is proposed for determining the hydraulic resistance and heat exchange in channels of intricate shape. It is based on principles of turbulent transfer in round tubes and is applied to the turbulent flow of an incompressible fluid in a cylindrical channel of arbitrary cross section. It was checked by comparing calculated and experimental resistance coefficients of channels of various cross sections over a wide range of Reynolds numbers, and a good agreement was obtained in all cases. The method also permits one to find an exsee supervision can be used to derive the thermal problem and determine tangential stressos on the wall. The method is applicable to the calculation of heat transfer to ordinary fluids (Pr & 1) in the range of thermal stabilization. In order UDC: 621.1.016.4 1/2

| figures, 1 table and 24 formulas. UB CODE: 20/ SUEM DATE: none/ ORIG REF: 007/ OTH REF: 004 | C NR: APC | ut al | the cal | | | | suffi e cha | icient annel | to ha | ve ti sect: | ne soi ion). | lution Orig | of Po art | isso had | n's | |
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CHUMAKOV, M.P.; FRADKIN, M.Ya.; SHLYKOVA, B.D.; AVAKYAN A.A.; ZAITSEVA N.S.

New method for trachoma control; therapy with chloromycetin L and synthomycin. Vest. oft., Moskva 30 no.3:3-9 May-June 51. (CIML 21:1)

1. Of the State Scientific-Research Institute for Eye Diseases imeni Gel'mgol'ts and of the Institute of Virusology imeni Ivanovskiy of the Academy of Medical Sciences USSR.



LEONT'YEV, O.K.; FOTEYEVA, N.I.; ZAKHAROVA, L.Ya.; SHLYKOVA, L.M.

Principle stages in the history of the southern part of
the Volga-Ural interfluve during the recent Quaternary period.
Nauch. dokl. vys. shkoly; geol.-geog. nauki no.3:79-89 '58.
(MIRA 12:1)

1.Moskovskiy universitet, geograficheskiy fakul'tet, kafedra
geomorfologii.
(Volga Valley--Geology, Stratigraphic)
(Ural Valley--Geology, Stratigraphic)

SHLYKOVA, N., inzh.

In the Technical Council. Energ. stroi. no.27:89-90 '62.
(MIRA 15:9)
(Hydraulic engineering)

MAZILKIN, I.A.; SHLYKOVA, O.M.

Influence of sources of nitrogen nutrition on nitrogen metabolism in cells of Bac.megatherium. Izv. Sib. otd. AN SSSR no.3:98-104

'59. (MIRA 12:8)

1. Bashkirskiy filial Akademii nauk SSSR.
(Nitrogen metabolism) (Bacillus megatherium)

KUZIN, A.M.; BEREZINA, N.M.; SHLYKOVA, O.N.

Role of the dose rate in radiobiological effects on plants.
Biofizika 5 no. 5:566-569 '60. (MIRA 13:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(PLANTS, EFFECT OF GAMMA RAYS ON) (RADIATION—DOSAGE)

LUCHITSKIY, I.V., red.; BOGOLEPOV, K.V., red.; KOSYGIN, Yu.A., red.; MUSATOV, D.I., red.; SHLYKOVA, O.P., red.; YUNOV, A.Yu., red.; BUSHUYEVA, V.M., red.; VYALYKH, V.I., tekhn. red.

[Tectonics of Siberia] Tektonika Sibiri. Novosibirsk. Vol.2. [Tectonics of Krasnovarsk Territory] Tektonika Krasnovarskogo kraja. 1963. 385 p. (MIRA 17:4)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye.

SHLYKOVA, S. A. Cand Tech Sci -- (diss) "Development of traction- and heat-engineering tests for locomotives." Mos, 1957. 16 pp 20 cm (Acad Sci USSR. Inst of History of Natural Science and Engineering), 110 copies (KL, 24-57, 119)

-56-

SHLYKOVA, S.A.

First experimental investigations of locomotives (up to the middle of the 19th century. Vop.ist.est. i tekh. no.5:187-190

157. (MIRA 11:2)

(Locomotives--Testing)

YEREMEYEVA, S.I.; YAKOVLEV, V.B.; CHESNOVA, L.V.; SHLYKOVA, S.A.; KOZLOV, S.G.; KHRENOV, K.K. (Kiyev); TIGRANYAN, S.T. (Yerevan); KROTIKOV, V.A. (Leningrad)

In the Soviet National Association of Historians of Science and Technology. Vop.ist.est.i tekh. no.10:180-187 '60. (MIRA 14:3) (Scientific societies)

AUTHOR

SULTANAYEY A.A., SHLYKOVA, T.I

20-6-42/59

TITLE

The Eostaffella facial complex in the Carbonaceous.

(Eoshtaffellovyy fatsial'nyy kompleks v karbone.- Russian)

Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 6, pp 1334-1337

(U.S.S.R.)

ABSTRACT

PERIODICAL

 ${
m I}_{
m n}$ the carbonaceous deposits (from the Taurus horizon of the Visé stage up to the Kashir horizon of the Moscow stage) often a peculiae foraminigera complex is well developed in the mud, in organogenic mud, and often in algae limestones. Various eostaffella as well as archaediscides predominate here. Often bradyiines occur. Endothyres as well as globivalvulines are often present. Some typical Visé forms, however, as well as some middle carbonaceous genera lack. Some scientists are inclined to attach a stratigraphic importance to this complex. They class its deposits among the basis of the Bashkir stage, as "strata of Krasnaya Polyana" and parallelize them with the suite C5 of the Denotes basin and with the upper parts of the suite C4. The authors were able to make themselves conversant, according to some profiles, with the distribution of this foraminifera complex in the carbonaceous of the Russian Plateau and of the Ural. On this occasion it turned out that in the eostaffella

CARD 1/3

20-6-42/59

The Eostaffella facial complex in the Carbonaceous.

APPROVED FOR RELEASE the 872372000 des CIA-RDP86-00513R001549720016-bradylines, or, rarely, both are lacking. 1. South Ural, Uvel'ka river, 70 km south-south-west of

Chelyabinsk. Algae, more rarely organogenic - clastic limestones, total thickness 200 m. Many foraminifera. Age not older than the Mikhaylov and hardly younger than the Venev horizon. The 130 m thick limestones lying on it are very similar and also contain numerous foraminifera.

2. Another profile of equal plasticity is on the Iset river above the town of Kamensk on the east slopes of the middle Ural. It is very similar to that of Uvelka. The "Krasnaya-Polyana"complex here has an age Serpukhov and Namur. The foraminifera are extremely rich and manifold.

3. In the Shartym-profile the "Krasnaya-Polyana"-complex is of the Bashkir age and corresponds to a part of the V.horizon of Librovich.

4. The "Krasnaya-Polyana"-complex is less extended on the western slopes of the Ural. On the strength of the presence of choristites and foraminifera which characterize the mentioned strata, Eynor counts this profile as belonging to the Bashkir stage. 5. On the Russian Plateau the "Krashaya-Polyana"-complex apparantly is of the Namur- and middle carbonaceous age.

CARD 2/3

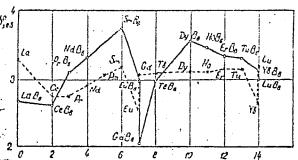
ACC NR AP6023002 UR/0185/66/011/004/0437/0438 SOURCE CODE: AUTHOR: Samsonov, H. V.; Shlyuko, V. Ya. ORG: Institute of Problems in the Science of Materials AN Ukrssk, Kiev (Instytut problem materialoznavstva AN Uk+SSR) TITLE: Thermionic emission properties of rare earth borides SOURCE: Ukrayins'kyy fizichnyy zhurnal, v. 11, no. 4, 1966, 437-438 TOPIC TAGS: rare earth metal, boride, scandium compound, yttrium compound, lanthanide series, work function, electron transition, electron emission, electron shell ABSTRACT: Rare earth borides of Sc, Y and most lanthanides have good thermionic emission properties and low work functions which makes it possible to use them as cathode materials. The work function of rare earth hexaborides is assumed to be determined by donor-acceptor interaction between the atoms of the metal and boron on the basis of the number of possible rare earth element terms and the possibility of f-b electron transitions. The authors feel that a more accurate interpretation of the rare earth hexaboride work function may be made on the basis of the theory of electron configuration stability where the electrons are produced in the d-f shells of the transition metal atoms. The production of the three most stable electron configurations (f^0 , f^7 and f^{14}) in the f-states of the electron shell is studied. In studying the first group of

Card 1/2

ACC NR: AP6023002

lanthanides where atoms in an isolated state have 7 or less electrons in the f-shell,

it may be assumed that the statistic weight of the for-states increases with the number of electrons in the f-shell. Since s-electrons take part in emission with partial transition to the f-level, increasing the statistic weight of the f^7 -configurations, the work function of the metals grows uniformly with an increase in the number of electrons in the f-shell up to six. Thus the work function increases with the statistic weight of the stable f^7 -configurations; in the metal crystal. A graph is given showing the work function of the rare earth elements and their hexaborides as a function of the number of electrons in the f-shell (see figure). Orig. art. has: 1 figure.



Number of electrons in the f-shell of an isolated metal atom

Relationship between the work function of rare earth elements and their borides, and the number of electrons in the f-shell

SUB CODE: 20/ SUBM DATE: 10Aug65/ ORIG REF: 005/ OTH REF: 001

Card 2/2

ACC NR. ARGO35114

SOURCE CODE: UR/0147/66/000/008/1094/1094

AUTHOR: Shlyuko, V. Ya.

TITLE: Laboratory device for synthesizing high purity rare earth borides

SOURCE: Ref. 7h. Metallurgiya, Abs. 81649

REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. mekhan. -tekhnol., no. 2,

1966, 74-77

TOPIC TAGS: boride, rare earth, rare earth boride, laboratory apparatus

ABSTRACT: A laboratory unit has been developed for synthesizing high-purity rare earth borides. The device consists of a vacuum working chamber in which the charge in boronized molybdenum crucibles is placed on a turntable. The charge consists of a mixture of metal oxide and boron oxides in tablet form. The heating is provided by an electron gun with a lanthanum hexaboride cathode. The gun is fed by a smoothly controlled voltage of 5-20kv. The system is evacuated by two N5 and TsVL-100 diffusion pumps, a BNZ-booster pump and a VN-2MG rough exhaust pump. Individual evacuation of the chamber and the cathode unit insures a

Card 1/2

UDC: 620, 181, 1:621, 365

ACC NR: AR6035114

stable operation of the electron gun. The temperature is measured by an OMP-19 optical micropyrometer through an observation port. The apparatus provides a wide range temperature variation necessary for synthesizing borides and eliminates the possibility of formation of a carbide component in the boride obtained. V. Sinev. [Translation of abstract]

SUB CODE: 13/

Card 2/2

EWP(e)/EWI(m)/EWP(t)/EII IJP(e) JD/JOACC NR. AP603229' (4) SOURCE CODE: UR/0226/66/000/009/0043/0049 AUTHOR: Bondarenko, V. P.; Bilyk, I. I.; Shlyuko, V. Ya. ORG: Kiev Order of Lenin Polytechnic Institute (Kiyevskiy ordena Lenina politekhnicheskiy institut) TITLE: Investigation of conditions of alloy preparation in the system yttrium boride-lanthanum boride 11 SOURCE: Poroshkovaya metallurgiya, no. 9, 1966, 43-49 TOPIC TAGS: boron, solid solution, crystallization, alloy, yttrium, lanthanum, yttrium boride, lanthanum boride, hexaboride ABSTRACT: A study has been made to investigate the effect of temperature and duration of sintering on the process of alloy preparation in the YB6-LaB6 system during combined reduction of oxides by boron in vacuum. It was found that the preparation of homogeneous solid solutions of hexaborides is possible with the presence in the charge of the appropriate metal instead of one of the oxides of hexaboride. It is suggested that the main accelerating factor is the formation of a Card 1/2

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SHLYUKOVA, Z.V.; SOKOLOVA, M.N.; YAKOVLEVSKAYA, T.A.; RUDNITSKAYA, Ye.S.; BUROVA, T.A.

Labuntsovite from the Khibiny Mountains. Zap. Vses. min. ob-va. 94 no.4:430-436 '65. (MIRA 18:9)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

SHLYUGER, VII.

137-58-5-10863

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 281 (USSR)

AUTHORS: Chertavskikh, A.K., Kalinin, K.P., Shlyuger, V.I.

TITLE: Effect of Treatment Procedure on the Distribution of Lead in

LS63-3 Brass (Vliyaniye tekhnologii obrabotki na raspredele-

niye svintsa v latuni LS63-3)

PERIODICAL: Tr. Gos. n.-i. i proyekt. in-ta po obrabotke tsvetn. met.,

1957, Nr 17, pp 69-78

ABSTRACT: With the object of improving the machinability of LS63-3

strip and sheet used in the watch industry, a procedure was sought for the manufacture of brass that would assure dispersion (D) and uniform distribution (UD) of the Pb. It is established that elevated D and UD of Pb are provided by a $17~\mathrm{mm/sec}$ rate of casting with a 3:100 ratio of cross sections of stream to ingot, and intensive cooling of the mold. The temperature of the melt is $1000-1000^{\circ}\mathrm{C}$. Additions of 0.5% Ce, Se, and Te do not affect the D and the nature of the UD of Pb. The maximum D of the Pb and consequently the best machinability and improved

surface finish are obtained at maximum total degree of deform-/2 ation and low temperature anneal (450-500°) for 2.5-3 hours.

Card 1/2

137-58-5-10863

Effect of Treatment Procedure (cont.)

The principal difference between the new and the old process is that annealing temperature has been cut by 150-200°.

N.L.

1. Braue-lead alloys--Properties 2. Lead-Distribution

Card 2/2

ACCESSION NR: AP4040473

s/0226/64/000/003/0091/0094

AUTHOR: Shlyuko, V. Ya.

TITLE: A laboratory electron beam furnace for vacuum melting and processing sintered refractory materials

SOURCE: Poroshkovays metallurgiya, no. 3,(21), 1964, 91-94

TOPIC TAGS: electron beam, electron beam furnace, refractory metal, metal melting, metal film, film deposition, vacuum vapor deposition, refractory compound

ABSTRACT: A laboratory size electron beam furnace is described. It consists of a vacuum melting chamber, electron gun, high voltage rectifier, and vacuum system. The unit was successfully used in melting small amounts (18—25 g) of refractory metals, heat treating refractory carbides, and depositing diffusion coatings; the range of temperatures was great enough to permit vacuum vapor deposition of tungsten, molybdenum, niobium, tantalum, zirconium, and titanium films. Orig. art. has: 4 figures.

Card 1/2

| ACCESSION N | IR: AP404047 | 73 | | | ' |
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SHLYUKO, V.Ya.; DERKACH, V.D.

Unit for crucibleless zone refining of high-melting metals by an electron beam in a vacuum. Zav. lab. 31 no.11:1408-1410 '65. (MIRA 19:1)

1. Kiyevskiy politekhnicheskiy institut.

Crarhical and analytical method of tolerance computation in measuring instruments.

Foskva, Gos. izd-vo obor. promyshl., 1950. 129 p. (51-21787)

TJ1313.35

Technology

Graphoanalytical method of computing the requirement for polishing-machine cylinders and industrial diamonds, Noskva, 1951

9. MONTELY LIST OF HUSSIAN ACCESSIONS, Library of Congress, December 1952. Uncl.

SHLYUKOV, F N

Diamonds, Industrial

"Graph-analytical method of calculating requirements as to polishing wheels and industrial diamonds." P. N. Shlyukov. Reviewed by A.A. Gratvol. Sel'khozmashina, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

SHLYUKOV, V.A., inzhener.

Coremaking with powderlike sulfite liquor residue. Lit.proizv.
no.5:27 My '56. (MLRA 9:8)

(Coremaking)

SHLYUKOVA, Z.V.; BUROVA, T.A.

Chevkinite from the Khibiny Mountains, Zap. Vses. min. ob-va 92 no.5:597-599 163. (MIRA 17:1)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii (IGEM) AN SSSR, Moskva.

SHIYUS, Ye.N., polkovnik meditsinskoy sluzhby

Hypertension developing in athletes as a result of poorly organized training. Voen.-med. zhur. no.9:26-28 S '55. (MIRA 9:9)

(HYPERTENSION)

(ATHLETES--DISEASES AND HYGIENE)

SHLYUS, Ye.N. (Kronshtadt)

Influence of exercise therapy following appendectomy and herniotomy on the restoration of the vital capacity of the lungs and on the competence of the prelum abdominale. Vop. kur. fizioter. i lech. fiz. kul't. 25 no. 3:252-254 My-Je'60.

(EXERCISE THERAPY) (APPENDECTOMY) (HERNIA) (LUNGS)

(ABDOMEN)

YEGOROV, Yu.P.; KAPIAN, Ye.P.; LETINA, Z.I.; SHLYZPOCHNIKOV, V.A.;
PETROV, A.D.

Order of addition of lithium to diphenyl. Zhur.ob.khim. 28 no.12:
3258-3262 D '58.

1. Institut organicheskoy khimii AN SSSR.

(Lithium)

(Biphenyl)

CITACIA P. A. A. -- Incheso er Incheson The Expectiveness of the Cherations of Jicomo Packings." Les Cé Jun 55, Draven Minima Inst Highi I. V. Evalin (Dissectation For the Occide of Candidate in Technical Colences)

SU: Vicheshava Monova, January-Decencer 1962

SHMACHKOV, N.A.

Machanization of the process of taking coal samples. Koks i khim. no.6:7-10 '60. (MIRA 13:7)

4

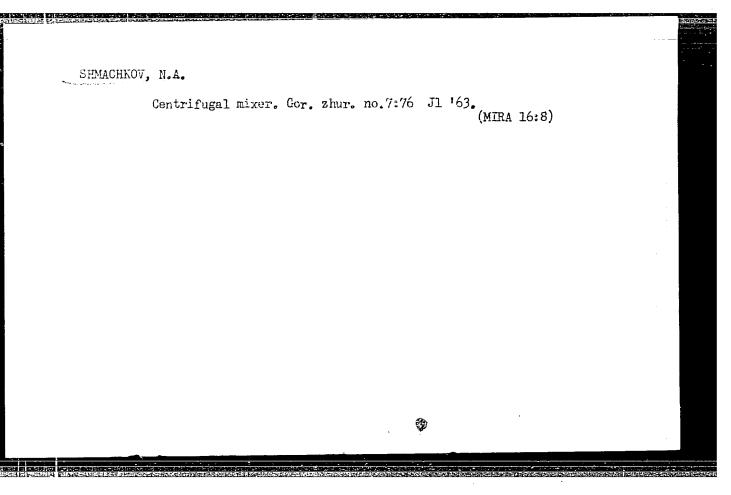
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SHMACHKOV, N. A., dotsent

Results of gravity coal preparation from the normal distribution parameters of a random quantity. New. vys. ucheb. zav.; gor. zhur. 5 no.8:176-181 '62. (MIRA 15:10)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy obogashcheniya poleznykh iskopayemykh.

(Coal preparation)



SHMACHKOV, V., shofer; SOKOLOV, A.; POHIKAROV, A., shofer pervogo klassa

Striving for traffic safety should be a constant concern. Za bezop.dvizh. 3 no.9:11 S '60. (MIRA 13:9)

1. Vtoraya uvtobaza legkovykh avtomobiley (for Shmachkov). 2. Predsedatel' Soveta obshchestvennykh inspektorov avtokombinata No.1 Glavmosavtotransa (for Sokolov). 3. 7-y taksomotornyy park (for Ponikarov).

(Traffic safety)

ACC NR: AR6031877

SOURCE CODE: UR/0058/66/000/006/E049/E049

AUTHOR: Shmaevs'kyy, V.

39

TITLE: Investigation of ordering the solid solution of zinc cadmium antimonide

SOURCE: Ref. zh. Fizika, Abs. 6E380

REF SOURCE: Visnyk L'vivs'k. un-tu. Ser. fiz., no. 2, 1965, 89-90

TOPIC TAGS: zinc, cadmium, antimonide, solid solution, electric resistance, thermoelectromotive force

ABSTRACT: A relationship of widths of two x-ray diffraction lines has been measured on the Debye diagrams of the solid solution of ZnSb—CdSb, close to ZnCdSb₂. The discovered line widening is caused by the appearance of second-order voltages, apparently connected with the partial ordering of the solid solution, which is confirmed by anomalies on the curves of the dependence of electrical resistance and thermoelectromotive force on the temperature at 510—540K. Ye. Vlasova. [Translation of abstract]

SUB CODE: 11/

Increasing limekiln capacity. Sakh. prom. 31 no.1:61-62 Ja '57.

(MIRA 10:4)

1. Sakharnyy zavod "Kreshchatik".

(Limekilns)

TSERMAN, M.D.; SHIAGAYLO, Ye.D. Regularize the operation of sugar refinery lime sections. Sakh. prop. 31 no.7:24-26 Jl '57. (MLPA 10:8) 1. althornyy zavod "Kreshchatik."
(Sugar industry--Equipment and supplies)

GRAFNETTEROVA, Y. [Grafnetterova, J.]; KHOLINSKI, K. [Holinsky, K.]; SHMAGEL, O. [Smagel, O.]; SHIK, O. [Sik, O.]

Significance of plasma clearance in the study of the kinetics of antibiotics. Antibiotiki 5 no.3:56-60 My-je '60. (MIRA 14:6)

l. Kafedra vnutrennikh bolezney (zav. - 0.Shmagel) Instituta usovershenstvovaniya vrachey, Praga, Chekhoslavakiya.

(ANTIBIOTICS)

ACCESSION NR: AP4003198

5/0241/63/008/012/0047/0050

AUTHOR: Kharvat, Z.; Shmagel!, Yu.

TITLE: Investigation of vessel regeneration in skin wounds as an objective method for determining changes in the healing process following x-irradiation

SOURCE: Meditsinskaya radiologiya, v. 8, no. 12, 1963, 47-50 (including insert facing p. 49)

TOPIC TAGS: skin wound, vessel regeneration, wound healing, postirradiation healing, skin wound healing, blood vessel regeneration

ABSTRACT: An earlier study has established that vessel regeneration in skin wounds of nonirradiated rats passes through a series of three qualitatively different stages. The authors recommend that these stages be used as an objective criterion in evaluating skin wound regenerative processes in irradiated animals. To determine the regenerative stage of vessels in a wound, rats are first anesthesized and the thoracic cavity is opened. Then the left ventricle of the heart is punctured to introduce a heated (50°C) mixture (30-50 ml) of gelatin, ink, and a few other substances through a fixed syringe Card/2

ACCESSION NR: AP4003198

in the ascending artery. The animal is placed in cold water to cool the mixture in the vessels. Then a square skin flap is cut with the wound in the center. The skin is separated from the base of the wound and both are fixated in Carnoy solution and then placed in glycerine. With a stereoscopic microscope the vessel regeneration stage is determined in the skin preparations. Orig. art. has: 5 figures.

ASSOCIATION: Kafedra gistologii i embriologii meditsinskogo fakul!teta Karlova universiteta v gradtse Kralove (Histology and Embryology Department of the Medical Division of Charles University)

SUBMITTED: 04Jul63

DATE ACQ: 09Jan64

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Card2/2

SHIDLOVSKIY, A.A.; SHMAGIN, L.F.

Thermal decomposition and combustion of ammonium perchlorate.

Izv.vys.uch.zav.; khim.i khim.tekh. 5 no.4:529-532 '62.

(MIRA 15:12)

1. Moskovskiy institut khimicheskogo mashinostroyeniya,
kafedra obshchey i organicheskoy khimii.

(Ammonium perchlorate)

(Combustion)

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11.2110

AUTHORS:

Chidlovskiy, A. A., Semishin, V. I. and Shmagin, L. F.

TITLE:

Thermal decomposition and combustion of hydrazine

perchlorate

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 4, 1962, 756-759

TEXT: The above was studied as an extension of the authors' earlier work on NH_4^+ and $\mathrm{N_2H_4}$ salts. Thermochemical and physico-chemical properties of hydrazine perchlorate were investigated and the preparation and analysis (iodometric) are described in brief. The density was found to be 1.927 g/cm³, heat of solution at 298°K 9.77 kcal/mole for 1:1000 dilution, heat of formation 42.9 kcal/mole and m.p. 140.5 - 141.0°C. Sensitivity to impact and friction was high (greater than $\mathrm{NH_4ClO_4}$). Thermal decomposition was studied by heating the samples for 6 minutes at set temperatures, between 160°C (no decomposition) and 240°C (5.4% loss in weight). Fast

X.

\$/080/62/035/004/004/022

Thermal decomposition and ... D204/D301

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machine Construction)

SUBMITTED: Jctober 24, 1960

Card 3/3

EPA/EPF(c)/EPF(n)-2/EPR/EPA(s)-2/EVT(m)/EVP(b)/EVP(t) pr-4/pt-10/ L 21825-65 SSD(a)/iJP(c) WW/JWD/JD 5/0153/64/007/005/0862/0863 ACCESSION NR: AP5001756 AUTHOR: Shidlovskiy, A. A.; Shmagin, L. F.; Bulanova, V. V. Burning of ammonium perchlorate under atmospheric pressure SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 5, 1964, 862-863 TOPIC TAGS: ammonium perchlorate, catalyst, ammonium perchlorate der composition, ammonium perchlorate burning ABSTRACT: The catalytic effect of Cu20, Cu2Cl2, Cu0, CuCO3, MnO2, MnCO3, MnCl2 · 4H2O , Co2O3, ZnO, Fe2O3, N1O, N12O3, Cr2O3, Cu, Cr2O4, CdO, or MgO on the thermal decomposition and burning of ammonium perchlorate has been studied at atmospheric pressure. The experiments were conducted with technical-grade Nil Clou sifted through a no. 61 sieve and containing 5% of the ground pure catalysts. The mixtures were burned at 20 and 100C in glass tubes. At 20C, NH_4C10_4 burns in the presence of Cu₂O, Cu₀, Cu₂Cl₂, MnO₂, or MnCO₃, and at 100C Card 1/2

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in the presence of $CuCO_3$, $MnCl_2$: $4H_2O_3$, Co_2O_3 or ZnO_6 . The highest burning velocity and highest thermal coefficient of the burning velocity (0.60-0.80 mm/sec at 20C and 1.40-2.08 mm/sec at 100C) are exhibited by mixtures containing copper compounds. Mixtures with Fe_2O_3 , NiO_3 , Cr_2O_3 , Cr_2O_4 , CdO_3 as MgO_3 do not burn under the above conditions. Orig. art. has: 1 table.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machinery)

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SUB CODE: GC, FP

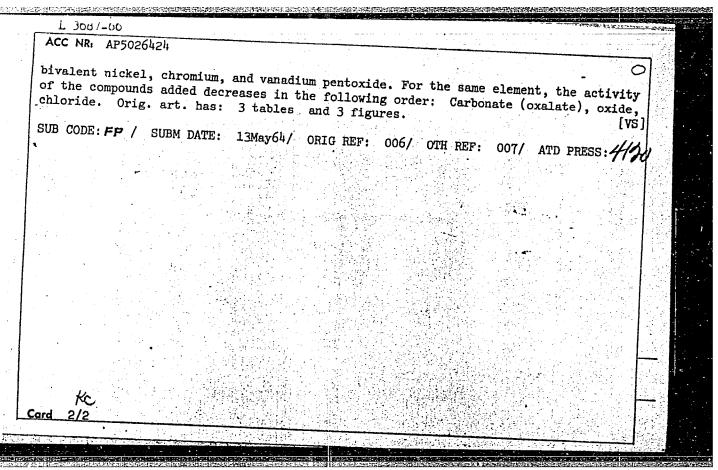
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Cord 2/2

| | / (ADDIA) 2/T/EWP(t)/EWP(b) IJP(c)/RPL JD/WW/JW/HW/JWD | |
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| ٠. | L 3687-66 EWT(m)/EPF(C)/EPF(H)-2 1/5 SOURCE CODE: UR/0153/65/008/004/0533/0536 | |
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| Ì | symuon, Shidlovskiv, A. A.; Shmagin, L. F.; Bulanova, V. V. | |
| ١ | AUTHOR: Shidlovskiy, A. A.; Shmagin, L. F.; Bulanova, V. V. | _ |
| ١ | ORG: Moscow Institute of Chemical Machine Building; Chair of General and Organic Chemistry (Moskovskiy institut khimicheskogo mashinostroyeniya, Kafedra obshchey i organi- | |
| | tietm (Moskovskiy institut khimicheskogo mashinostroyeniya, karenta | |
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| | on the thermal decomposition of ammonium per- | |
| | cheskoy khimil) TITLE: The effect of some additives on the thermal decomposition of ammonium per- | |
| | | 2 |
| | SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 4, 1965, 533-538 | Ž. |
| | SOURCE: 1VUZ. KITIELJU - 11 | 환 원 |
| | TOPIC TAGS: solid propellant, oxidizer, ammonium salt | |
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| | ABSTRACT: The purpose of this work was to investigate the thermal decomposition was to investigate the thermal decomposition was studied, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, and oxalates ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates (AP) in the presence of oxides (AP) in the presence oxide | 3 |
| | ABSTRACT: The purpose of the presence of oxides, chlorides, carbonates, ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, ammonium perchlorate (AP) in the presence of oxides, chlorides, carbonates, carbon | |
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| | of certain metals. The decomposition energies were rotated sure and 214—470C. The following values for activation energies were rotated sure and 214—470C. The following values for the cubic form, E = 24—28 kcal/mole; for the orthorhombic form, E = 40 kcal/mole; for the cubic form, E = 36—39 kcal/mole. Compounds of residue from the low-temperature decomposition, E = 36—39 kcal/mole. Compounds of residue from the low-temperature decomposition of AP at T < 240C. Compounds of residue from the low-temperature decomposition of AP at T < 240C. The rate | 3,4 |
| | residue from the law promote complete decomposition of AP at 1 270 280C. The rate | |
| | residue from the low-temperature | |
| | iron, nicket, and control is increased by the addition of compounds of iron, | |
| | of decomposition of AP is increased by the addition of compounds of copper, of decomposition of AP is increased by the addition of compounds of iron, cobalt, as well as zinc oxide; it is retarded by the addition of compounds of iron, | = |
| | (COBAIC, as "-1" ν) UDC: 662.2.393 | |
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L 05022-67 FWT(m)/EWP(j) WW/JW/JWD/RM ACC NR: AR6032310 SOURCE COD

SOURCE CODE: UR/0081/66/000/010/V172/V173

AUTHOR: Shmagin, L. F.; Shidlovskiy, A. A.

45 B

TITLE: The effect of the oxides of some metals on the composition of the products of thermal decomposition of ammonium perchlorate η^{ν}

SOURCE: Ref. zh. Khimiya, Part I, Abs. 10V148

REF SOURCE: Sb. Issled. v obl. khimii i tekhnol. mineral'n. soley i okislov. M.-L., Nauka, 1965, 112-114

TOPIC TAGS: thermal decomposition, perchlorate, ammonium perchlorate

ABSTRACT: A study was made of the composition of gases emitted during the thermal decomposition of pure $\mathrm{NH_4ClO_4}$. During the decomposition at a temperature 240C, $\mathrm{Cl_2}$ is liberated mainly in free form. As the temperature increases, the amount of free $\mathrm{Cl_2}$ decreases and the amount of HCl increases. When the decomposition occurs in the presence of $\mathrm{Cr_2O_3}$, $\mathrm{MnO_2}$, $\mathrm{Fe_2O_3}$, $\mathrm{Co_2O_3}$, NiO and $\mathrm{Cu_2O}$, the ratio between the amount of $\mathrm{Cl_2}$ emitted in free form and in the form

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ACC NR: AR6032310 of HCl depends somewhat on the chemical nature of the added oxide. An exception is ZnO, in whose presence the amount of the HCl formed sharply decreases. During the decomposition of the pure NH₄ClO₄ a significant amount of N₂O is formed. In the presence of metal oxides, the amount of N₂O decreases (except in a series of experiments with ZnO). Very little N₂O is formed in the presence of MnO₂ and Co₂O₃, which accelerate the thermal decomposition at a greater rate than the other additives. A large part of the nitrogen is liberated in the form of NO with MnO₂ and Co₂O₃ additions. [Translation of abstract] SUB CODE: 07/

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Card 2/2 LC

GUREVICH, B.Ye.; MKMIROVSKIY, A.N.; YEFIMOV, V.A.; SHMAGIN, Ya.O.;
Prinimali uchastiye: Semenov, S.S., kand.tekhn.nauk; NIKOIAYEVA,
A.I., tekhnik

Production of oil shale diesel fuel. Khim. i tekh. gor. slan. i prod. ikh perer. no.8:84-M01 '60. (MIRA 15:2) (Diesel fuels) (Oil shales)

SHMAGIN, Ya.G.; SIPOVSKIY, G.V.; KOTKAS, R.E.

Water extraction of diatomic phenols from distillate fractions of shale tars. Khim. i tekh. gor. slan. i prod. ikh perer. no.ll: 236-245 '62. (MIRA 17:3)

FEOFILOV, Ye.Ye.; SOO, K.M.; SIPOVSKIY, G.V.; SHMAGIN, Ya.G.

Operation of a phenol separation tar-refining unit of the V.I.Lenin Shale Processing Combine. Knim. i tekh. gor. slan. i prod. ikh perer. no.11:246-258 '62. (MIRA 17:3)

SIFOVSKIY, G.V.; PEOFILOV. Ye.Ye.; KHALLIK, E.K. [Hallik, E.];
KALLBERG, A.O. [Kalberg, A.]; SHMAGIN, Ya.G.

Distillation of chember tar in an experimental atmospheric and vacuum distillation unit. Khim. i tekh. gor. slan.
i prod. ikh perer. no.10:190-199 '62. (MIRA 17:5)

FEOFILOV, Ye.Ye.; SIPOVSKIY, G.V.; SHMAGIN, Ya.G.; MATOCHINSKIY, Yu.M.

Continuous distillation of oil shale tars under atmospheric pressure. Khim. i tekh. gor slan. i prod. ikh perer. no.10:200-216 '62.